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P A P E R

IN

M A N U F A C T U R E S.

MANUFACTURES.

A Bounty of FIFTEEN GUINEAS was this Session voted to Mr. THOMAS CLULOW, No. 31, Old Cock-Lane, Shoreditch, for his Invention of a LOOM to weave FIGURED RIBBANDS, a Model of which is reserved in the Society's Repository, for the inspection of the Public.

THIS Loom differs from the common figured Ribband-Looms in the method of forming the figure, which, in the old mode, was tedious, from the work being stopped, whilst the figure was drawn by the hand.

In the present Loom the tire cords, which form the figure, are drawn or
\$ 2
worked

worked by a cord or leather strap fixed to the centre traddle, which strap passes over two vertical and one horizontal pulley to the back of the loom, and has a weight hung to the end thereof: upon this strap, above the weight, is fixed an iron of a bevil or sloping form, which, when the strap is pulled up by pressing with the foot upon the traddle, raises a wire lever placed across the main wheel of the movements placed vertically, and allows this main wheel to move one fourth of its circumference, where it is stopped by an iron pin placed on its rim, and prevented from returning by a clitch or catch on the edge of the wheel on its right-side. Within the rim of the main wheel is a small catch-strap connected with the strap above mentioned; this catch-strap pulls forward the main wheel one fourth of its circumference until it is stopped by the wire-lever, and one of the pins on the rim, of which there are four in number in the round.

There

There are also four iron pins projecting from the left side of the main wheel in opposite quarters of it ; these act on a hanging lever, to the lower part of which a string is attached which passes behind the box, containing the whole machinery, and raises four clicks or catches on four rollers, which permits any one of the four rollers to run back as the figure may require, each roller, by such motion, drawing up the number of threads necessary to form the figure, by cords extending from these rollers over pulleys to the pass-cords which draw the figure.